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Tennessee Valley Authority, Sequoyah Nuclear Plant, P.O. Box 2000, Soddy Daisy, TN 37384

May 17, 2022

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Subject: **Sequoyah Nuclear Plant, Discharge Monitoring Report (DMR), April 2022**

Attached is the April 2022 DMR for Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in black ink, appearing to read 'T.R. Markum', is written above the typed name.

Travis R. Markum  
Environmental Scientist

**DMR Copy of Record**

<b>Permit</b>		<b>Permittee:</b> Tennessee Valley Authority (TVA)		<b>Facility:</b> TVA SEQUOYAH NUCLEAR PLANT (SQN)	
<b>Permit #:</b> TN0026450	<b>Major:</b> Yes	<b>Permittee Address:</b> Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379	<b>Facility Location:</b> SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379		
<b>Permitted Feature:</b> 101 External Outfall	<b>Discharge:</b> 101-G (no description)				

<b>Report Dates &amp; Status</b>		<b>Monitoring Period:</b> From 04/01/22 to 04/30/22	<b>DMR Due Date:</b> 05/15/22	<b>Status:</b> NetDMR Validated
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**Considerations for Form Completion**  
Primary discharge from Diffuser Pond.

<b>Principal Executive Officer</b>		<b>Title:</b> Vice President	<b>Telephone:</b> 423-843-7001
<b>First Name:</b> Thomas	<b>Last Name:</b> Marshall		

**No Data Indicator (NODI)**  
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type					
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units			
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample								=	33.8		04 - deg C	99/99 - Continuous	RC - Recorder (auto)				
					Permit Req.															99/99 - Continuous	RC - Recorder (auto)	
					Value NODI																	
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample								=	21.4		04 - deg C	99/99 - Continuous	CA - CALCTD				
					Permit Req.															99/99 - Continuous	CA - CALCTD	
					Value NODI																	
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	1	--	Sample								=	2.5		04 - deg C	99/99 - Continuous	CA - CALCTD				
					Permit Req.															99/99 - Continuous	CA - CALCTD	
					Value NODI																	
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	1750.5	=	1764.2	03 - MGD								99/99 - Continuous	RC - Recorder (auto)			
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										99/99 - Continuous	RC - Recorder (auto)	
					Value NODI																	
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample																	
					Permit Req.																01/07 - Weekly	GR - GRAB
					Value NODI																	
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample			=	0.3	62 - deg C/hr								99/99 - Continuous	CA - CALCTD			
					Permit Req.															99/99 - Continuous	CA - CALCTD	
					Value NODI																	
TRP3B	IC25 Static Renewal 7 Day Chronic Chrceriodaphnia	1 - Effluent Gross	0	--	Sample																	
					Permit Req.																01/30 - Monthly	CP - COMPOS
					Value NODI																	
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample																	
					Permit Req.																01/30 - Monthly	CP - COMPOS
					Value NODI																	

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

Method Detection Limit for Total Residual Chlorine is 0.05 mg/L.

**Attachments**

No attachments.

**Report Last Saved By**

**Tennessee Valley Authority (TVA)**

User: TRMARKUM  
Name: Travis Markum  
E-Mail: trmarkum@tva.gov  
Date/Time: 2022-05-12 11:31 (Time Zone: -05:00)

**Report Last Signed By**

User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2022-05-13 06:23 (Time Zone: -05:00)

## DMR Copy of Record

Permit																				
Permit #:	TN0026450	Permittee:	Tennessee Valley Authority (TVA)	Facility:	TVA SEQUOYAH NUCLEAR PLANT (SQN)															
Major:	Yes	Permittee Address:	Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379	Facility Location:	SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379															
Permitted Feature:	103 Internal Outfall	Discharge:	103-G (no description)																	
Report Dates & Status																				
Monitoring Period:	From 04/01/22 to 04/30/22	DMR Due Date:	05/15/22	Status:	NetDMR Validated															
Considerations for Form Completion																				
Internal Monitoring Point for various flows from Low Volume Waste Treatment Pond to Diffuser Pond, which eventually discharges through Outfall 101.																				
Principal Executive Officer																				
First Name:	Thomas	Title:	Vice President	Telephone:	423-843-7001															
Last Name:	Marshall																			
No Data Indicator (NODI)																				
Form NODI:	--																			
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units	
00400	pH	IM - Internal Monitoring Point	0	--	Sample						=	7.8			=	7.8	12 - SU	01/30 - Monthly	GR - GRAB	
					Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU				
					Value NODI															
00530	Solids, total suspended	IM - Internal Monitoring Point	0	--	Sample									=	12.9	=	12.9	19 - mg/L	01/30 - Monthly	GR - GRAB
					Permit Req.								<=	30.0 MO AVG	<=	100.0 DAILY MX	19 - mg/L			
					Value NODI															
00556	Oil & Grease	IM - Internal Monitoring Point	0	--	Sample									<	4.8	<	4.8	19 - mg/L	01/30 - Monthly	GR - GRAB
					Permit Req.								<=	15.0 MO AVG	<=	20.0 DAILY MX	19 - mg/L			
					Value NODI															
50050	Flow, in conduit or thru treatment plant	IM - Internal Monitoring Point	0	--	Sample	=	1.267	=	1.267	03 - MGD									01/30 - Monthly	IN - INSTAN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										
					Value NODI															
Submission Note																				
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																				
Edit Check Errors																				
No errors.																				
Comments																				
Attachments																				
No attachments.																				
Report Last Saved By																				
Tennessee Valley Authority (TVA)																				
User:	TRMARKUM																			
Name:	Travis Markum																			
E-Mail:	trmarkum@tva.gov																			
Date/Time:	2022-05-12 11:33 (Time Zone: -05:00)																			
Report Last Signed By																				
User:	TMCMUTUA																			
Name:	Tony McMutuary																			
E-Mail:	tmcmutuary@tva.gov																			
Date/Time:	2022-05-13 06:23 (Time Zone: -05:00)																			

## DMR Copy of Record

<b>Permit</b>																			
<b>Permit #:</b> TN0026450		<b>Permittee:</b> Tennessee Valley Authority (TVA)				<b>Facility:</b> TVA SEQUOYAH NUCLEAR PLANT (SQN)													
<b>Major:</b> Yes		<b>Permittee Address:</b> Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379				<b>Facility Location:</b> SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379													
<b>Permitted Feature:</b> 107 Internal Outfall		<b>Discharge:</b> 107-G (no description)																	
<b>Report Dates &amp; Status</b>																			
<b>Monitoring Period:</b> From 04/01/22 to 04/30/22				<b>DMR Due Date:</b> 05/15/22				<b>Status:</b> NetDMR Validated											
<b>Considerations for Form Completion</b>																			
Metal Cleaning Waste Pond discharge. No monitoring required for stormwater decanting. Daily monitoring required only during dewatering events.																			
<b>Principal Executive Officer</b>																			
<b>First Name:</b> Thomas		<b>Title:</b> Vice President				<b>Telephone:</b> 423-843-7001													
<b>Last Name:</b> Marshall																			
<b>No Data Indicator (NODI)</b>																			
<b>Form NODI:</b> --																			
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample Permit Req.	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type	
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3
00400	pH	IM - Internal Monitoring Point	0	--	Sample Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	01/01 - Daily	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge			
00530	Solids, total suspended	IM - Internal Monitoring Point	0	--	Sample Permit Req.						<=	30.0 MO AVG			<=	100.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPOS
					Value NODI							C - No Discharge				C - No Discharge			
00556	Oil & Grease	IM - Internal Monitoring Point	0	--	Sample Permit Req.						<=	15.0 MO AVG			<=	20.0 DAILY MX	19 - mg/L	01/01 - Daily	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge			
01042	Copper, total [as Cu]	IM - Internal Monitoring Point	0	--	Sample Permit Req.						<=	1.0 MO AVG			<=	1.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPOS
					Value NODI							C - No Discharge				C - No Discharge			
01045	Iron, total [as Fe]	IM - Internal Monitoring Point	0	--	Sample Permit Req.						<=	1.0 MO AVG			<=	1.0 DAILY MX	19 - mg/L	01/01 - Daily	CP - COMPOS
					Value NODI							C - No Discharge				C - No Discharge			
<b>Submission Note</b>																			
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																			
<b>Edit Check Errors</b>																			
No errors.																			
<b>Comments</b>																			
There has been no discharge from the Metal Cleaning Waste Ponds during the reporting period, other than decanted accumulated stormwater. Monitoring not required (NODI = 9) per Part I.A.3. of the NPDES permit.																			
<b>Attachments</b>																			
No attachments.																			
<b>Report Last Saved By</b>																			
<b>Tennessee Valley Authority (TVA)</b>																			
<b>User:</b> TRMARKUM		<b>Name:</b> Travis Markum				<b>E-Mail:</b> tmarkum@tva.gov													
<b>Date/Time:</b> 2022-05-12 11:34 (Time Zone: -05:00)																			
<b>Report Last Signed By</b>																			
<b>User:</b> TMCMUTUA		<b>Name:</b> Tony McMutuary				<b>E-Mail:</b> tmcmutuary@tva.gov													
<b>Date/Time:</b> 2022-05-13 06:23 (Time Zone: -05:00)																			

**DMR Copy of Record**

<b>Permit</b>		<b>Permittee:</b> Tennessee Valley Authority (TVA)		<b>Facility:</b> TVA SEQUOYAH NUCLEAR PLANT (SQN)	
<b>Permit #:</b> TN0026450	<b>Major:</b> Yes	<b>Permittee Address:</b> Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379	<b>Facility Location:</b> SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379		
<b>Permitted Feature:</b> 110 External Outfall	<b>Discharge:</b> 110-G (no description)				

<b>Report Dates &amp; Status</b>		<b>Monitoring Period:</b> From 04/01/22 to 04/30/22		<b>DMR Due Date:</b> 05/15/22		<b>Status:</b> NetDMR Validated	
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**Considerations for Form Completion**  
Outfall 110 is closed. Only active in the event the plant goes into closed mode.

<b>Principal Executive Officer</b>		<b>Title:</b> Vice President		<b>Telephone:</b> 423-843-7001	
<b>First Name:</b> Thomas	<b>Last Name:</b> Marshall				

**No Data Indicator (NODI)**  
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type	
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI												99/99 - Continuous	CA - CALCTD
00010	Temperature, water deg. centigrade	Z - Instream Monitoring	0	--	Sample Permit Req. Value NODI									<=	30.5 DAILY MX	04 - deg C	99/99 - Continuous	CA - CALCTD
00016	Temp. diff. between samp. & upstrm deg. C	1 - Effluent Gross	2	--	Sample Permit Req. Value NODI									<=	5.0 DAILY MX	04 - deg C	99/99 - Continuous	CA - CALCTD
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD							99/99 - Continuous	RC - Recorder (auto)
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI						<=	0.027 MO AVG		<=	0.047 DAILY MX	19 - mg/L	05/WK - Five Per Week	GR - GRAB
82234	Temperature rate of change deg. C/hr	Z - Instream Monitoring	0	--	Sample Permit Req. Value NODI									<=	30.5 DAILY MX	62 - deg C/hr	99/99 - Continuous	CA - CALCTD
TRP3B	IC25 Static Renewal 7 Day Chronic Chrcceriodaphnia	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI						>=	69.0 MINIMUM				23 - %	01/30 - Monthly	GR - GRAB
TRP6C	IC25 Static Renewal 7 Day Chronic Chrpimephales	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI						>=	69.0 MINIMUM				23 - %	01/30 - Monthly	GR - GRAB

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
No errors.

**Comments**

**Attachments**  
No attachments.

**Report Last Saved By**  
Tennessee Valley Authority (TVA)

User: TRMARKUM  
Name: Travis Markum  
E-Mail: trmarkum@tva.gov  
Date/Time: 2022-05-12 11:34 (Time Zone: -05:00)

*Report Last Signed By*

User: TCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2022-05-13 06:23 (Time Zone: -05:00)

**DMR Copy of Record**

<b>Permit</b>			
<b>Permit #:</b>	<b>TN0026450</b>	<b>Permittee:</b>	Tennessee Valley Authority (TVA)
<b>Major:</b>	Yes	<b>Permittee Address:</b>	Sequoyah Access Road, PO Box 2000 Soddy Daisy, TN 37379
<b>Permitted Feature:</b>	118 External Outfall	<b>Discharge:</b>	<b>118-G</b> (no description)
<b>Facility:</b>	TVA SEQUOYAH NUCLEAR PLANT (SQN)		
<b>Facility Location:</b>	SEQUOYAH ACCESS ROAD SODDY DAISY, TN 37379		

<b>Report Dates &amp; Status</b>			
<b>Monitoring Period:</b>	<b>From 04/01/22 to 04/30/22</b>	<b>DMR Due Date:</b>	<b>05/15/22</b>
<b>Status:</b>	<b>NetDMR Validated</b>		

**Considerations for Form Completion**

<b>Principal Executive Officer</b>			
<b>First Name:</b>	Thomas	<b>Title:</b>	Vice President
<b>Last Name:</b>	Marshall	<b>Telephone:</b>	423-843-7001

**No Data Indicator (NODI)**  
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type				
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units		
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample																
					Permit Req.						>=	2.0 MINIMUM					19 - mg/L	02/07 - Twice Every Week	GR - GRAB		
					Value NODI																
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample																
					Permit Req.										<=	100.0 DAILY MX	19 - mg/L	02/07 - Twice Every Week	GR - GRAB		
					Value NODI																
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample																
					Permit Req.										<=	1.0 DAILY MX	25 - mL/L	01/30 - Monthly	GR - GRAB		
					Value NODI																
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										01/BA - Once Per Batch	ES - ESTIMA
					Value NODI		C - No Discharge		C - No Discharge												

**Submission Note**  
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**  
No errors.

**Comments**

**Attachments**  
No attachments.

**Report Last Saved By**  
Tennessee Valley Authority (TVA)

User: TRMARKUM  
Name: Travis Markum  
E-Mail: trmarkum@tva.gov  
Date/Time: 2022-05-12 11:35 (Time Zone: -05:00)

**Report Last Signed By**  
User: TMCMUTUA  
Name: Tony McMutuary  
E-Mail: tmcmutuary@tva.gov  
Date/Time: 2022-05-13 06:23 (Time Zone: -05:00)